

1635



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/040,722

DATE: 01/21/2003
TIME: 16:05:24

Input Set : A:\50047.006003.SEQLIST.TXT
Output Set: N:\CRF4\01212003\J040722.raw

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TECH CENTER 1600/2900

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,722

DATE: 01/11/2003

TIME: 16:05:14

Input Set : A:\50047.006003.SEQLIST.TXT

Output Set: N:\CRF4\01212003\J040722.raw

63	85	90	95		
65	ggt ggc ttc tcc atg tta ctg tgg att gga gcc att ctt tgt ttc ttg			576	
66	Gly Gly Ser Met Leu Leu Trp Ile Gly Ala Ile Leu Cys Phe Leu				
67	106	105	110		
69	gtt tat ggc atc cga agt get acg gaa gag gaa cca cca aat gat gat			624	
70	Ala Tyr Gly Ile Arg Ser Ala Thr Glu Glu Pro Pro Asn Asp Asp				
71	115	120	125		
73	ctg tac ctc ggg gtc gtg ctg tct gct gtc gtc atc ata act ggc tgt			672	
74	Leu Tyr Leu Gly Val Val Leu Ser Ala Val Val Ile Thr Gly Cys				
75	136	135	140	145	
77	tta tcc tat tat taa gaa gca aaa agc tcc aag atc atg gaa tcc ttc			720	
78	Phe Ser Tyr Tyr Gln Glu Ala Lys Ser Ser Lys Ile Met Glu Ser Phe				
79	150	155	160		
81	aaq aac atg gtc cct cag caa gcc ctc gtg att cga aat gga gag aac			768	
82	Lys Asn Met Val Pro Gln Gln Ala Leu Val Ile Arg Asn Gly Glu Lys				
83	165	170	175		
85	atg aac atc aac gca gag gat gtc gtc gtt ggt gat ctg gtg gag gtg			816	
86	Met Ser Ile Asn Ala Glu Asp Val Val Gly Asp Leu Val Glu Val				
87	180	185	190		
89	aaq gac gga gac cga atc cct get gat gtc aca atc ata tct gca aat			864	
90	Lys Gly Gly Asp Arg Ile Pro Ala Asp Leu Arg Ile Ile Ser Ala Asn				
91	195	200	205		
93	gjc tpc aag gtc gat aac tcc tca ctc act ggt gaa tca gaa ccc cag			912	
94	Gly Cys Lys Val Asp Asn Ser Ser Leu Thr Gly Glu Ser Glu Pro Gln				
95	210	215	220	225	
97	act cgg tcc ccc gat ttc aca aac gag aac ccc ttg gag aca agg aac			960	
98	Phe Arg Ser Pro Asp Phe Thr Asn Glu Asn Pro Leu Glu Thr Arg Asn				
99	230	235	240		
101	att gcc ttc tcc tca acc aac tgt gtt gaa act aca cgt ggc atc			1008	
102	Ile Ala Phe Phe Ser Thr Asn Cys Val Glu Gly Thr Ala Arg Gly Ile				
103	245	250	255		
105	gtt gtg tac act ggg gat ggc acc gtg atg ggc agg atc gcc acc ctt			1056	
106	Val Val Tyr Thr Gly Asp Arg Thr Val Met Gly Arg Ile Ala Thr Leu				
107	260	265	270		
109	gtt tct ggg ccc gaa ggc ggc cag acc ccc att get gaa gaa atc gag			1104	
110	Ala Ser Gly Leu Glu Gly Gln Thr Pro Ile Ala Glu Glu Ile Glu				
111	275	280	285		
113	ccg atc atc ccc atc acc ggt gtg gcc gtg ttc ctg ccc ctc tct			1152	
114	His Phe Ile His Leu Ile Tyr Gly Val Ala Val Phe Leu Gly Val Ser				
115	290	295	300	305	
117	ttc ttc att ctc act ctc atc ttg gag tac acc tgg ctc gag ccg gtc			1200	
118	Phe Phe Ile Leu Ser Ser Ile Leu Glu Tyr Thr Trp Leu Glu Ala Val				
119	310	315	320		
121	atc ttc ctc att ggt atc atc gta gcc aac gtg ccc gaa ggt ttg ctg			1243	
122	Ile Phe Leu Ile Gly Ile Ile Val Ala Asn Val Pro Glu Gly Leu Leu				
123	325	330	335		
125	gcc acc gtc acg gta tgg ctg acg ctc act gcc aac ccc atc gcc agg			1296	
126	Aia Thr Val Thr Val Cys Leu Thr Leu Thr Ala Lys Arg Met Ala Arg				
127	340	345	350		

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128 aag aac tgc ctg gtg aag aac ctg gaa gtc gtg gaa acc ttc ggg tcc	1344
129 lys Asn Cys Leu Val Lys Asn Leu Glu Ala Val Glu Thr Leu Gly Ser	
130 355 360 365	
133 aca tcc acc atc tgc tcc gac aag act cga act ctg act cag aac egg	1392
134 Thr Ser Thr Ile Cys Ser Asp Lys Thr Gly Thr Leu Thr Cys Asn Arg	
135 370 375 380 385	
137 atg aca gtc gct ctc atg tgg ttt gac aat caa atc cat aac gtc aac	1440
138 Met Thr Val Ile His Met Trp Phe Asp Asn Gln Ile His Glu Ala Asp	
139 390 395 400 405	
141 acc aca gaa aat cag aat gag gtc tcc ttt gac aag acg *ca gcc acc	1488
142 Thr Thr Glu Asn Gln Ser Gly Val Ser Phe Asp Lys Thr Ser Ala Thr	
143 405 410 415 420	
145 tgg ttc gct ctg tcc aca att gct ggt ctc tgt aac aag gca gtc ttt	1526
146 Trp Phe Ala Leu Ser Arg Ile Ala Gly Leu Cys Asn Arg Ala Val Phe	
147 420 425 430 435	
149 cat gct aac aca gaa aac ctg ctc atc ctt aac gtc gca gtc gga	1584
150 Gln Ala Asn Gln Glu Asn Leu Pro Ile Leu Lys Arg Ala Val Ala Gly	
151 435 440 445 450	
153 gat gct tcc gag tcc gcg ctc tta aac tgc atc gag gtc tgc tgc tgg	1632
154 Asp Ala Ser Glu Ser Ala Leu Leu Lys Cys Ile Glu Val Cys Cys Gly	
155 450 455 460 465	
157 tcc gtc atg gag atg aag gag aac taa acc aac aat gtc gag att cct	1680
158 Ser Val Met Glu Met Arg Glu Lys Tyr Thr Lys Ile Val Glu Ile Pro	
159 470 475 480 485	
161 tcc aac tcc acc aac aag tac caq ctc tcc att cac aac cca aat	1723
162 Phe Asn Ser Thr Asn Lys Tyr Gin Leu Ser Ile His Lys Asn Pro Asn	
163 485 490 495 500	
165 gca tcc gag ccc aac ctc ctg ctc gtc atg aag ggc gtc cca gaa agc	1776
166 Ala Ser Glu Pro Lys His Leu Leu Val Met Lys Gly Ala Pro Glu Arg	
167 500 505 510 515	
169 atc ccc gag ccc tgc aat ttc ctc ctc ggc aag gag ccc ccc	1824
170 Ile Leu Asp Arg Cys Ser Ser Ile Leu Leu His Gly Lys Glu Gln Pro	
171 515 520 525 530	
173 ctc gac gaa gag ctg aag gac gcc ttt cag aat gtc tcc cta gag ctg	1871
174 Leu Asp Glu Ile Lys Asp Ala Phe Gln Asn Ala Tyr Leu Glu Leu	
175 530 535 540 545	
177 ggc ggc ctt gga gag ctt gtc ggt ttc tcc ctc ctc ctc ctc ccc	1920
178 Gly Gly Leu Gly Glu Arg Val Leu Gly Phe Cys His Leu Leu Leu Pro	
179 550 555 560 565	
181 gaa cag ttt ccc gaa gtc ttc cag ttt gac act gat gaa gtc aat	1963
182 Asp Glu Gln Phe Pro Glu Gly Phe Gln Phe Asp Thr Asp Glu Val Asn	
183 565 570 575 580	
185 ttg ccc gtc gat aac ctc ttc ttc gag ggt ctt aac tcc atg att gag	2016
186 Phe Pro Val Asp Asn Leu Cys Phe Val Gly Leu Ile Ser Met Ile Asp	
187 580 585 590 595	
189 ccc ccc cgt gct gtc ccc gat gtc gtc ggc aac tcc ccc aac gtc gct	2064
190 Pro Pro Arg Ala Ala Val Pro Asp Ala Val Gly Lys Cys Arg Ser Ala	
191 595 600 605 610	
193 ggg att aag gtc atc atg gtc aca gca gac cat cca atc aca gcc aac	2112

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194 Gly Ile Lys Val Ile Met Val Thr Gly Asp His Pro Ile Thr Ala Lys 625
 195 610 615 620 625 2160
 197 gcc att gct aac ggg qtg ggc att atc tca gaa gat aac gag acc gta 2160
 198 Ala Ile Ala Lys Gly Val Gly Ile Ile Ser Glu Gly Asn Glu Thr Val 640
 199 630 635 640 2208
 201 gaa gac att gct gcc cgc ctc aac att cca qtg aac cag qtg aac ccc 2208
 202 Glu Asp Ile Ala Ala Arg Leu Asn Ile Pro Val Asn Gln Val Asn Pro 655
 203 645 650 655 2256
 205 aga gat gcc aac ggc tgc gta gta cat cgc agt gac tgc aag gac atc 2256
 206 Arg Asp Ala Lys Ala Cys Val Val His Gly Ser Asp Leu Lys Asp Met 660
 207 660 665 670 2304
 209 aac tct gag gag ctc gat gac att tgc tgc ttc ctc aac acg gag att gtc 2304
 210 Thr Ser Glu Glu Leu Asp Asp Ile Leu Arg Tyr His Thr Glu Ile Val 675
 211 675 680 685 2352
 212 ttc gct agg acc tct ctc caa cag aag ctc atc att gtc gag ggc tgc 2352
 214 Phe Ala Arg Thr Ser Pro Gln Gln Lys Leu Ile Val Glu Gly Cys 700
 215 690 695 700 705
 217 ctc cgg cag ggt gcc aac gtc gct gtc aca ggg gat ggt gtc aat gac 2400
 218 Gln Arg Gln Gly Ala Ile Val Ala Val Thr Gly Asp Gly Val Asn Asp 710
 219 710 715 720 2448
 221 tct cca gct ttc aac aac gca gat att tgc gtc gtc atc tgg att gtc 2448
 222 Ser Pro Ala Leu Lys Lys Ala Asp Ile Gly Val Ala Met Gly Ile Val 725
 223 725 730 735 2496
 225 ggc tcc gat gng tcc aac cca gct gct gag atg att ctc ttc gag aac 2496
 226 Gly Ser Asp Val Ser Lys Gln Ala Ala Asp Met Ile Leu Leu Asp Asp 740
 227 740 745 750 2544
 229 aac ttt gcc tcc aac gtc act gca gtc gag gaa ggt gtc ttc atc ttc 2544
 230 Asn Phe Ala Ser Ile Val Thr Gly Val Glu Glu Gly Arg Leu Ile Phe 755
 231 755 760 765 2592
 233 gat aac ttg aag aac tcc att gct taa aca ctc aca agt aac att ccc 2592
 234 Asp Asn Leu Lys Lys Ser Ile Ala Tyr Thr Leu Thr Ser Asn Ile Pro 770
 235 770 775 780 2640
 237 gaa atc acc ccc ttc ttc ataa ttt att atc gca aac att cca ct ccc 2640
 238 Glu Ile Thr Pro Phe Leu Ile Phe Ile Ala Asn Ile Pro Ser Pro 780
 239 780 785 790 300
 241 ttc ggc acc gng acc att ctc tgc att gag ttc ggc act gag atc gtc 2683
 242 Leu Gly Thr Val Thr Ile Leu Cys Ile Asp Leu Gly Thr Asp Met Val 805
 243 805 810 815 2736
 245 ccc gcc atc tct cng gct tat gaa tgg gct gaa agt gag atc atg aac 2736
 246 Pro Ala Ile Ser Leu Ala Tyr Glu Gln Ala Glu Ser Asp Ile Met Lys 820
 247 820 825 830 2784
 249 agg cag ccc aja aat ccc aas aac gag gag aac ctt gtc aac gag cgt ctc 2784
 250 Arg Gln Pro Arg Asn Pro Lys Thr Asp Lys Leu Val Asn Gln Arg Leu 835
 251 835 840 845 2880
 253 atc aac atg gcc tat tgc cag atc ggt atc gag ccc atc ctc ggg ggc 2880
 254 Ile Ser Met Ala Tyr Gly Gln Ile Gly Met Ile Gln Ala Leu Gly Gly 850
 255 850 855 860 2880
 257 ttc ttc act tat ttt gtc att ctg gct gag aac ggt ttc ctg ccc ttt 2880
 258 Phe Phe Thr Tyr Phe Val Ile Leu Ala Glu Asn Gly Phe Leu Pro Phe

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,722

DATE: 12/12/2018

TIME: 16:05:14

Input Set : A:\50047.006003.SEQLIST.TXT

Output Set: N:\CRF4\01212003\J040722.raw

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/040,722

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